BRUHAT BANGALORE MAHANAGARA PALIKE

Yelahanka Zone, Electrical Division

Detailed Estime for Providing Illumination to Play Ground by Arranging High Mast Pole and Flood Lights in Ward No-09

Budget Head:-

Ward No. 9 **Estimate No.** AEE/Ele/Est/13/2013-14. **For Rs. 2000000.00**

Sl.No.	Description of work	No	Dimension L	Dimension B	Dimension D	Qty	Rate	Per	Amount
	Foundation Work: KPWD Civil SR 2013-14								
1	KSRB 2-1.1 : Earthwork in excavation for foundation of structures as per drawing and technical spcifications, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sided and bottom and backfilling with approved material complete as per specifications I.Ordinary soil - A Manual Means (i) Depth upto 3m MORTH Specification No.304. {Pg No.221 I.No. 27.1}								
	Basic rate	74.95							
	Area Weightage	6.00							
	Total	80.95							
		4	1	2.50	2.50	2.10	52.50		
					Total Qty		**52.50**	80.95	Cum	**4250.00**
2	KSRB 4-1.3: Providing and laying in position plain cement concrete mix M7.5 with OPC cement @ 180kgs with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggreagtes @ 0.57cum machine mixed concrete laid in layers not exceeding 15cms thick well compacted in foundation and plinth including cost of all materials labour HOM of machinery curing complete as per specifications. Specification No.KBS 4.1, 4.2 (PWDSR 2012-13 Pg No-12, Item No-4.3)								
	Basic rate	3597.00							
	Area Weightage	215.82							
	Total	3812.82							
		4	1	2.15	2.15	0.10	1.85		
					Total Qty		**1.85**	3812.82	Cum	**7050.00**
3	KSRB 4.2.8 : Providing and laying in position **reinforced cement concrete of design mix M20** with OPC cementb@ 320kgs with 20mm and down size graded granite metal coarse aggregates @ 0.69cum and fine aggregates @ 0.46cum with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008 machine mixed concrete laid in layers not exceeding 15 cms thick, vibrated for R.C.C.beams, columns of all sizes in foundation plinth and superstructure ground floor level for roof slabs, staircase, lintels, columns, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications.(excluding cost of steel, fabrication & plastering)Specification No. KBS 4.1, 4.6 (PWD SR 2011-12 Page no-15, Item No.4.17)								
	Basic Rate	4851.00							
	Area Weightage	291.06							
	Total	5142.06							
	For base	4	1	2.15	2.15	0.30	5.55		
	For column	4	1	1.00	1.00	1.90	7.60		
					Total Qty		**13.15**	5142.06	Cum	**67603.00**

4	KSRB 4.9.2 : Providing TMT steel reinforcement for R.C.C. work including straightening,cutting, bending, hooking, placing in position, lapping and / or welding wherever required,tying with binding wire and anchoring to the adjoining members wherever necessary complete,as per design (laps, hooks and wastage shall not be measured and paid) cost of all materials,labour, HOM of machineries complete as per specifications. Specification No.KBS 4.6.3 (PWDSR 2012-13 Page no-19, Item No-4.46)									
	Basic Rate	6781.00								
	Total	6781.00								
	45 kgs per cum of Concrete			0.45	13.15		5.92			
					Total Qty		**5.92**	6781.00	Qtl	**40117.00**
5	KSRB 4-6.5: Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square/ rectangular/ polygon in plan including cost of all materials, labour complete as per specifications. Specification No.KBS 4.6.2 (PWDSR 2012-13 Page no-17, Item No-4.32)									
	Basic Rate	282.00								
	Area Weightage	16.92								
	Total	298.92								
	For Base	4	4	2.15		0.30	10.32			
	For Column	4	4	1.00		1.90	30.40			
					Total Qty		**40.72**	298.92	Sqm	**12172.00**
							SUB TOTAL Rs			**131192.00**
	KPWD (elect) SR 2010-11									
1 77/27	Fabrication, Supplying and erection of 16Mtrs long polygon high mast of bottom dia 475mm and top dia 150mm with two telescopic sections having bottom piece 8.25mtrs with 4mm thick and top piece 8.25Mtrs with 3mm thick as per BSEN 10025 grade S 355 JO steel sheet plate for shaft suitable to withstand a wind velocity of 180 kmph as per IS 875 part 3 (as per GA Drawing). Base plate having size 650mm dia 20mm thick with 8Nos of foundation bolts M25x850mm long and connected accessories as per IS 2062. The mast shall be hot dip Galvanized as per BSEN ISO1461 with an average 70 microns as per IS2629, and welded as per BS 5135 Single L-Seam joint. The mast shall have 2 way head frame with 4 nos of 190mm die cast LM-6 pulleys, Stainless steel axils, Phosphorus bearing bush press fitted with separate guides for 2 runs of 6mm dia stainless steel wire rope and 5 core 2.5sqmm EPR insulated PCP sheathed trailing power cable all are housed inside the bottom shaft of mast with suitable locking 275x1000mm hinged door. The mast shall have power tool having 1.0HP, 415V, 50Hz, 3phases reversible 960 rpm geared motor mast. The mast shall have lantern of 2 segments, 2370mm dia with max load of 350kgs carrying capacity as per IS 1239. The mast shall be erected on existing 1700mm depth of shallow shaft RCC footing. The mast shall be supplied with 3mm thick template, lightings arrester of 1.2m length galvanized pipe with top arrow will be fitted at top of the head frame cover the GLS type aviation twin lamps fittings with wiring complete. (Weight of the mast with accessories approximately 734 Kgs).1) Group A	4	192000.00	Each	768000.00
2 41/38	Fabricating supplying and mounting MS box made out... SWG suitable for floor/wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer pain and finally finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete a) 16 SWG	95000	0.35	Sqcm	33250.00

41/36	Supplying.....amps rated 3 phase with neutral bus bar using requirement capacity electrolytic aluminium strips covered with heat shrinkable coloured PVC sleeve, mounted on phenolic/FRP/DMC insulator which are mounted on powder coated 40x6 mm M.S.flat frame work in existing panel board. The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts, nuts and washers etc., complete. b) 250Amps 4x30x10mm Alluminium Strips	8	2650.00	Rmtr	21200.00
	a) 100Amps 4x30x6mm Alluminium Strips	6	1600.00	Rmtr	9600.00
4 40/34	Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 220v A.C.50 Hz 12/24v D.C.b) Group B	3	355.00	Each ~~Rmtr~~	1065.00
5 40/30	Supplying, fixing and wiring 50/5 to 400/5 Amps 5 VA burden Current Transformer, Class 0.5 accuracy with Tape Wound. a) Group A	3	460.00	Each	1380.00
6 38/16	Supplying, fixing and wiring 0 to 600 Volts 96x96mm AC Voltmeter on existing panel/wood board. Group 'A'	1	430.00	Each	430.00
7 39/20	Supplying, fixing and wiring 0 to 1500 amps CT operated AC analog type Ammeter (With out CT)	1	590.00	Each	590.00
8 39/21	Supplying, fixing and wiring rotary selector switch suitable for Ammeter.	1	430.00	Each	430.00
9 39/22	Supplying, fixing and wiring rotary selector switch suitable for voltmeter	1	245.00	Each	245.00
10 10/23	Supplying and fixing hylum brand hand plastic sheet 3mm thick with necessary nitches for fixing switches, regulators etc., and fixing on existing wood or metal box using N.F.screws.	20000	0.20	Sqcm	4000.00
11 33/7	Supplying of on load change over switches 4 poles, 415V, 50Hz, AC Supply with AC-23A Duty.e) 400 Amps 1) Group 'A'	1	20000.00	Each	20000.00
12 34/9	Supplying and fixing Moulded Case Circuit Breaker (MCCB) Over the existing wood/panel board using necessary screws, bolts, nuts and wiring thermal Magnetci Microprocessed release and Earth Fault as per IS-13947. (Icu=Ics)THREE POLE a) 100 Amps 25 kA,1) Group 'A'	6	3660.00	Each	21960.00
13 42/39	Supply and Installation/Fixing/Provision for mounting of HRC Fuse /MCB with suitable connector/teminal for 3 Ph/1 Ph connections with Loop-in & Loop-Out terminals for 10 Sqmm/25 sqmm 3.5 C Al/AR/Cu/AR Cable and branchout 2.5 Sqmm 2 Core Al/Cu PVC insulated cable, enclosure, which should be shock proof, safe IP 65 (Weather Proof), rust proof, dust proof, water proof having Internally Embedded Gasket with provision for cable entry through IP 65 Thermoplastic, Polyamide glands and /or grommets.b) 260x210x116mm	6	1570.00	Each	9420.00
14 68/3	Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required.I. GI Stripa) 25x3mm	10	75.00	Per mtr	750.00
15 68/1	Supplying, fixing wiring earth electrode for gounding conduits, I.C.Cutouts and other equipments on the meter board using 40mm dia 2.90 thick GI 2.5 mtr long buried in a pit... the pit should be filled with equal proportion of salt and charcoal 150mm alround the pipe to complete depth. The connection from the pipe to the conduit etc, is to be established through GI wire of size as oer ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and checknuts etc, the pipe shall have 16 through holes of 12 mm dia.	8	1950.00	Each	15600.00
16 69/4	Supplying of LT UG cable having aluminium conductor PVC insulated, sheathed, galvanized, steel wire/steel tap armoured cable with PVC outer sheathing 1.1KV Class I. Class 'A' PVC Cable				
	e) 3.5 core 25sqmm	640	215.00	Per Mtr	137600.00

	g) 3.5 core 50sqmm	120	340.00	Per Mtr	40800.00
17 69/5	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe/ stoneware pipe/ on wall/ on pole as required. I. In existing trench /duct.				
	b) 25 sqmm to 75 sqmm	760	11.00	Rmtr	8360.00
18 70/6	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete. (As per Civil SR KSRB 1-2, P-7)b. In hard Soil	700	50.00	Rmtr	35000.00
19 20/14	Supplying High pressure… Watts Metal halide flood light luminary suitable for use with high pressure metal halide lamp with integrated control gear. The fitting shall be non corrosive high pressure die cast aluminium housing with low copper content black/grey powder coated pain finish including wiring, suitable to operate on 230/250 Volts 50 Hz AC supply with---- watts HP metal halide lamps. VI 2X400 Watts a) Group 'A'	32	18700.00	Each	598400.00
20 19/12	Supplying High pressure sodium vapour street light fitting die cast aluminium canopy with aluminium housing for control gear, finished stove enamel gray glassy white canopy interior with a pair of anodized aluminium reflectors with toughened flat glass, gasket lining for drip insect resistance duly wired with porcelain holder copper choke, igniter and HPF condenser including a sodium vapour lamp.II 250 Wattsa) Group 'A'	20	6150.00	Each	123000.00
21 28/1	Supplying & fixing mm dia class A GI pipe bracket up to 2 mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 or rail or RCC pole/wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires complete.b) Using 32mm dia G.I pipe	20	685.00	Each	13700.00
22 70/9	Supplying and fixing of class A (medium duty) GI pipe of wall thick ness not less than 3.25 mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class a. 40 mm	15	240.00	~~Each~~ RMtr	3600.00
	Sub Total-2				**1868380.00**
	TOTAL Rs				**1999572.00**
	Miscellaneous				**428.00**
	TOTAL				**2000000.00**

CERTIFICATE :-

1. The place was inspected and the work is essential.
2. The provision made in the estimate are adequate and necessary and the work comes in the BBMP limit and is legitimate Charges on the BBMP funds.
3. The estimate is based on KPWD Civil SR 2013-14 and KPWD (Ele) S.R.2010-11 Rates and BBMP

Jr. Engineer (Elecl) /Asst Eng

Asst. Executive Engineer (Elecl)
I/c Yelahanka Zone

ADMINISTRATIVELY SANCTIONED FOR Rs 20.00 lakh

Rupees Twenty Lakhs only

Under P0190- Hon Mayor Grants

Registered as EE ( ) No 3....9....

Subject to conditions contained in enclosed memo EE ( ) No ...../9/....

Dt ..... Estimate A/ Sanctioned

Addl Com(Y2)/AS/881/13-14

dated 22/02/14 Rs 20.00 lakhs

Addl Joint Commissioner
(Yelahanka Zone)
BBMP. Bengaluru-92.

EXECUTIVE ENGINEER (ELECL)
Yelahanaka Zone, BBMP

TECHNICAL ... Rs 20.00 lakhs

Rupees ...Twenty Lakhs only

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Dated 22/02/2014 Rs 20.00 lakhs

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Dt ..... Estimate A/ Sanctioned

Addl Com(42)AS/881/13-14

dated 22/02/14 Rs 20.00 lakhs

Addl Joint Commissioner
(Yelahanka Zone)
BBMP. Bengaluru-92.

EXECUTIVE ENGINEER (ELECL)
Yelahanaka Zone, BBMP

TECHNICAL SANCTION Rs 20.00 lakhs

Rupees Twenty Lakhs only

Under P0190 - Hon Mayor Grants.

Registered as AEE/ Addl com(42)/AS/881/13-14

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Dt 22/02/2014 Estimate A/ Sanctioned No .....

Dated 22/02/2014 Rs 20.00 lakhs

Executive Engineer